

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669ADATE: 08/08/98
TIME: 14:17:53

INPUT SET: S27952.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

(1) General Information:

(i) APPLICANTS: Boon, Thierry; van der Bruggen, Pierre; Van den Eynde, Ben
Pel, Aline; De Plaen, Etienne; Lurquin, Christophe; Chomez, Patrick; Traversari, Ca

(ii) TITLE OF INVENTION: TUMOR REJECTION ANTIGEN
ANTIGENS AND USES THEREOF

(iii) NUMBER OF SEQUENCES: 16

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Felfe & Lynch
(B) STREET: 805 Third Avenue
(C) CITY: New York City
(D) STATE: New York
(F) ZIP: 10022

(E) COUNTRY: USA

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
(B) COMPUTER: IBM
(C) OPERATING SYSTEM: PC-DOS
(D) SOFTWARE: Wordperfect

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/819,669
(B) FILING DATE: March 17, 1997
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/142,368
(B) FILING DATE: May 2, 1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 07/807,043
(B) FILING DATE: December 12, 1991

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 07/764,364
(B) FILING DATE: September 23, 1991

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 07/728,838
(B) FILING DATE: July 8, 1991

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669ADATE: 08/08/98
TIME: 14:17:54

INPUT SET: S27952.raw

46
47 (vii) PRIOR APPLICATION DATA:
48 (A) APPLICATION NUMBER: 07/705,702
49 (B) FILING DATE: May 23, 1991
50
51 (viii) ATTORNEY/AGENT INFORMATION:
52 (A) NAME: Hanson, Norman D.
53 (B) REGISTRATION NUMBER: 30,946
54 (C) REFERENCE/DOCKET NUMBER: LUD 5253.5 DIV. - JEL/NDH
55
56 (ix) TELECOMMUNICATION INFORMATION:
57 (A) TELEPHONE: (212) 688-9200
58 (B) TELEFAX: (212) 838-3884

ERRORED SEQUENCES FOLLOW:

59 (2) INFORMATION FOR SEQ ID NO: 1:
60
61 (i) SEQUENCE CHARACTERISTICS:
--> 62 (A) LENGTH: 462 base pairs
63 (B) TYPE: nucleic acid
64 (C) STRANDEDNESS: singular
65 (D) TOPOLOGY: linear
66
67 (ii) MOLECULE TYPE: genomic DNA
68
69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
70
71
72
73
74
75
76
77
78
79
80

Per 1.823(a) of Sequence Rules, only 72 characters per line allowed. Insert a hard return at the end of each line. Each line must have a cumulative nucleic acid total at right margin

ACCACAGG
ATCACTCA
CTCGTGGG
CTTGTGAA
CCCCCTCC
AGAACTCT
GTCAACGC
TATCTTAAC TA

81 (2) INFORMATION FOR SEQ ID NO: 2:
82
83 (i) SEQUENCE CHARACTERISTICS:
--> 84 (A) LENGTH: 675 base pairs
85 (B) TYPE: nucleic acid
86 (C) STRANDEDNESS: singular
87 (D) TOPOLOGY: linear
88
89 (ii) MOLECULE TYPE: genomic DNA
90
91 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

	92																	ATG TCT GAT AAC AA
	93																	
	94	Met	Ser	Asp	Asn	Lys	Lys	Pro	Asp	Lys	Ala	His	Ser	Gly	Ser	Gly	Gly	
	95					5					10					15		
	96																	
	97																	GAC GGT GAT GGG AA
	98	Asp	Gly	Asp	Gly	Asn	Arg	Cys	Asn	Leu	Leu	His	Arg	Tyr	Ser	Leu	Glu	
	99				20					25					30			
-->	100	GAA	ATT	CTG	CCT	TAT	CTA	GGG	TGG	CTG	GTC	TTC	GCT	GTT	GTC	ACA	ACA	144
	101	Glu	Ile	Leu	Pro	Tyr	Leu	Gly	Trp	Leu	Val	Phe	Ala	Val	Val	Thr	Thr	
	102																	
	103				35				40					45				
	104																	
	105																	AGT TTT CTG GCG CT
	106	Ser	Phe	Leu	Ala	Leu	Gln	Met	Phe	Ile	Asp	Ala	Leu	Tyr	Glu	Glu	Gln	
	107		50					55					60					
	108																	
	109																	TAT GAA AGG GAT GT
	110	Tyr	Glu	Arg	Asp	Val	Ala	Trp	Ile	Ala	Arg	Gln	Ser	Lys	Arg	Met	Ser	
	111	65					70					75					80	
	112																	
	113																	TCT GTC GAT GAG GA
	114	Ser	Val	Asp	Glu	Asp	Glu	Asp	Asp	Glu	Asp	Asp	Glu	Asp	Asp	Tyr	Tyr	
	115					85					90					95		
	116																	
	117																	GAC GAC GAG GAC GA
	118	Asp	Asp	Glu	Asp	Asp	Asp	Asp	Asp	Ala	Phe	Tyr	Asp	Asp	Glu	Asp	Asp	
	119				100					105					110			
	120																	
	121																	GAG GAA GAA GAA TT
	122	Glu	Glu	Glu	Glu	Leu	Glu	Asn	Leu	Met	Asp	Asp	Glu	Ser	Glu	Asp	Glu	
	123			115					120					125				
	124																	
	125																	GCC GAA GAA GAG AT
	126	Ala	Glu	Glu	Glu	Met	Ser	Val	Glu	Met	Gly	Ala	Gly	Ala	Glu	Glu	Met	
	127		130					135					140					
	128																	
	129																	GGT GCT GGC GCT AA
	130	Gly	Ala	Gly	Ala	Asn	Cys	Ala	Cys	Val	Pro	Gly	His	His	Leu	Arg	Lys	
	131	145					150					155					160	
	132	</																

please adjust format. Align titles
directly above corresponding owned acids.

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669ADATE: 08/08/98
TIME: 14:17:56

INPUT SET: S27952.raw

GAG GAG GAG GAG GA

145
146 Glu Glu Glu Glu Glu Glu Glu Met Gly Asn Pro Asp Gly Phe Ser Pro
147 210 215 220 225
148
--> 149 TAG 675
150
151

152 (2) INFORMATION FOR SEQ ID NO: 3:
153
154 (i) SEQUENCE CHARACTERISTICS:
--> 155 (A) LENGTH: 228 base pairs
156 (B) TYPE: nucleic acid
157 (C) STRANDEDNESS: singular
158 (D) TOPOLOGY: linear
159
160 (ii) MOLECULE TYPE: genomic DNA
161
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
163
164
165
166
167
168
169

*adjust
format*

GCATGCAG
TTCCCCTT
TCATTATG
ATAGGATTAC AC

648 (2) INFORMATION FOR SEQ ID NO: 10:
649
650 (i) SEQUENCE CHARACTERISTICS:
--> 651 (A) LENGTH: 662 base pairs 661 show
652 (B) TYPE: nucleic acid
653 (C) STRANDEDNESS: singular
654 (D) TOPOLOGY: linear
655
656 (ii) MOLECULE TYPE: genomic DNA
657
658 (ix) FEATURE:
659 (A) NAME/KEY: MAGE-21 gene
660
661 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
662
--> 663 GATCCCCAT GGATCCAGGA AGAATCCAGT TCCACCCCTG CTGTGAACCC
664 AGGGAAGTCA CGGGGCCGGA TGTGACGCCA CTGACTTGCG CGTTGGAGGT 100
665 CAGAGAACAG CGAGATTCTC GCCCTGAGCA ACGGCCTGAC GTCGGCGGAG 150
666 GGAAGCAGGC GCAGGCTCCG TGAGGAGGCA AGGTAAGATG CCGAGGGAGG 200
667 ACTGAGGCGG GCCTCACCCC AGACAGAGGG CCCCCAATAA TCCAGCGCTG 250
668 CCTCTGCTGC CAGGCCTGGA CCACCCTGCA GGGGAAGACT TCTCAGGCTC 300
669 AGTCGCCACC ACCTCACCCC GCCACCCCCC GCCGCTTTAA CCGCAGGGAA 350
670 CTCTGGTGTA AGAGCTTTGT GTGACCAGG CAGGGCTGGT TAGAAGTGCT 400
671 CAGGGCCCAG ACTCAGCCAG GAATCAAGGT CAGGACCCCA AGAGGGGACT 450
672 GAGGGTAACC CCCCCGCACC CCCACCACCA TTCCCATCCC CCAACACCAA 500
673 CCCCACCCCC ATCCCCCAAC ACCAAACCCA CCACCATCGC TCAAACATCA 550

5049

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669ADATE: 08/08/98
TIME: 14:17:57*INPUT SET: S27952.raw*

674	ACGGCACCCC	CAAACCCCGA	TTCCCATCCC	CACCCATCCT	GGCAGAATCG	600
675	GAGCTTTGCC	CCTGCAATCA	ACCCACGGAA	GCTCCGGGAA	TGGCGGCCAA	650
676	GCACGCGGAT	CC				662
677						
678						

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/819,669ADATE: 08/08/98
TIME: 14:17:57**INPUT SET: S27952.raw**

Line	Error	Original Text
62	Entered (462) and Calc. Seq. Length (0) differ	(A) LENGTH: 462 base pairs
84	Entered (675) and Calc. Seq. Length (51) differ	(A) LENGTH: 675 base pairs
101	# of Sequences for line conflicts w/ running total	GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC TT
149	# of Sequences for line conflicts w/ running total	TAG
155	Entered (228) and Calc. Seq. Length (0) differ	(A) LENGTH: 228 base pairs
651	Entered (662) and Calc. Seq. Length (661) differ	(A) LENGTH: 662 base pairs
663	# of Sequences for line conflicts w/ running total	GATCCCCAT GGATCCAGGA AGAATCCAGT TCCACC